

Designing CDSS (Clinical Decision Support System) Application of Bronchitis Disease Website Based, Jannatut Thoifatul Khusnah, Year 2017, Medical Record, State Polytechnic of Jember, Feby Erawantini, S.KM, M.P.H (Supervisor 1), Wahyu Kurnia Dewanto, S.Kom, MT (Supervisor 2)

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ABSTRACT

The advancement of information and communication has had a major impact on health, for example the existence of CDSS (Clinical Decision Support System) application, software that integrate information from patients with knowledge base to predict clinical decisions. Human respiratory system is one of the most important organ systems that could be impaired, for example bronchitis. Based on data from 10 major diseases obtained from Chest Hospital Jember, bronchitis disease is always occupy the top 5 rank for 3 consecutive years (2013-2015) in inpatient and outpatient. Based on that background, problem can be formulated, how to build CDSS (Clinical Decision Support System) application that is able to provide information about bronchitis and estimate a person infected by bronchitis or not. The purpose of this research is to build CDSS (Clinical Decision Support System) application of bronchitis disease. Data and information obtained through observation, interview, and literature study. Validity and reliability test is done by using triangulation test of source and technique. Application is designed by using waterfall method, CDSS application is designed by using forward chaining with tree model. Database is created by using mysql and accessed by using phpmyadmin XAMPP. Interface is designed by using Adobe Dreamweaver. The result of this research is CDSS (Clinical Decision Support System) Application. User transactions with application system are 'Input Nama', 'Input Gejala', and 'Simpan Hasil Analisis'. For further research is expected to integrate the system with GPS service, so the system could detect user's location and provide advice where the nearest health service from the user's location as a follow-up after the user expressed possibility of infected by bronchitis..

Keywords: Application, CDSS, Bronchitis, Website